

MULTI-BAND ANTENNA AND SYSTEM FOR WIRELESS LOCAL AREA
NETWORK COMMUNICATIONS

Abstract of the Disclosure

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A multi-band antenna comprises a first conductive layer having one or more parasitic patches, a second conductive layer having a plurality of radiating patches, and a third conductive layer having a ground patch. The first, second and third conductive layers may be separated by first and second substrate layers.

- 10 The second conductive layer may comprise a first radiating patch having dimensions selected to radiate signals within a first frequency spectrum and second radiating patches having dimensions selected to radiate signals within a second frequency spectrum. In wireless local area network (WLAN) embodiments, the first frequency spectrum may comprise a frequency band
- 15 ranging from approximately 5.1 to 5.9 GHz, and the second frequency spectrum may comprise frequency bands ranging from approximately 2.4 to 2.5 GHz.

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